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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. UPNA-0017	Application No. 10/805,705
		Applicant Karen Irene Winey, et al.	
		Filing Date March 22, 2004	Group 1753 1713
		Confirmation No. 8807	Examiner: Not Yet Assigned HH
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
HH	A	Reto Haggenmueller, oral slide presentation, "SWNT - Thermoplastic Composites", Annual Meeting of the American Physical Society, Seattle, Washington, March 15, 2001.	
	B	Karen I. Winey, oral slide presentation, "Alignment and Dispersion of Single-Wall Nanotubes in Polymer Composites", Annual Meeting of the Materials Research Society, Boston, Massachusetts, November 27, 2001.	
	C	Reto Haggenmueller, oral slide presentation, "Nanotubes in Amorphous and Semicrystalline Polymers", Annual Meeting of the American Physical Society, Indianapolis, Indiana, March 18, 2001.	
	D	Fangming Du, oral slide presentation, "Single-Walled Carbon Nanotube/PMMA Composites", Annual Meeting of the American Physical Society, Austin, Texas, March 6, 2003.	
	E	Reto Haggenmueller, oral slide presentation, "Fabrication and Properties of Single Walled Carbon Nanotube - Polymer Composites", University of Pennsylvania Engineering Research Symposium, Philadelphia, Pennsylvania, February 20, 2003.	
	F	Reto Haggenmueller, poster presentation, "SWNT - Thermoplastic Composites, Production and Characterization", Rice University, Houston, Texas, July 9, 2001.	
	G	Reto Haggenmueller, poster presentation, "Fabrication and Properties of Single Walled Carbon Nanotube - Semicrystalline Polymer Composites", Annual Meeting of the American Physical Society, Austin, Texas, March 6, 2003.	
✓	H	Karen I. Winey, oral slide presentation, "Nanotube-Polymer Composites", National Institute of Standards and Technology, Gaithersburg, Maryland, May 16, 2002.	
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		Applicant Karen Irene Winey, et al.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
H6	1	Ajayan, P.M., et al., "Single-walled carbon nanotube-polymer composites: strength and weakness," <i>Adv. Mater.</i> , 2000, 12(10), 750-753	
	2	Andrews, R., et al., "Nanotube composite carbon fibers," <i>Appl. Phys. Letts.</i> , 1999, 75(9), 1329-1331	
	3	Barraza, H.J., et al., "SWNT-filed thermoplastic and elastomeric composites prepared by miniemulsion polymerization," <i>NANO Letts.</i> , 2002, 2(8), 797-802	
	4	Bhattacharyya, A.R., et al., "Crystallization and orientation studies in polypropylene/single wall carbon nanotube composite," <i>Polymer</i> , 2003, 2373-2377	
	5	Biercuk, M.J., et al., "Carbon nanotube composites for thermal management," <i>Appl. Phys. Letts.</i> , 2002, 80(15), 2767-2769	
*	6	Brandrup, et al. (Eds.), "Solution Properties," Polymer Handbook, 3 rd Ed., Wiley Interscience, NY, 1989, Chapter VII	
	7	Choi, E.S., et al., "Enhancement of thermal and electrical properties of carbon nanotube polymer composites by magnetic field processing," <i>J. of Applied Physics</i> , 2003, 94(9), 6034-6039	
	8	Colbert, D.T., "Single-wall nanotubes: a new option for conductive plastics and engineering polymers," <i>Plastics Additives & Compounding</i> , Jan./Feb. 2003, 7 pages	
	9	Cooper, C.A., et al., "Distribution and alignment of carbon nanotubes and nanofibrils in a polymer matrix," <i>Composites Science and Technology</i> , 2002, 62, 1105-1112	
✓	10	Du, F., et al., "[W26.004] Single-walled carbon nanotube/PMMA composites," <i>FOCUS Session: Carbon Nanotube Composites</i> , 2003, Session W26, 1 page (abstract)	
EXAMINER		DATE CONSIDERED 2-9-06	

* A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

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		Confirmation No. 8807	4.157
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
4.157	11	Fisher, F.T., et al., "Effects of nanotube waviness on the modulus of nanotube-reinforced polymers," <i>Appl. Phys. Lett.</i> , 2002, 80(24), 4647-4649	
	12	Hadjiev, V.G., et al., "Raman scattering test of single-wall carbon nanotube composites," <i>Appl. Phys. Lett.</i> , 2001, 78(21), 3193-3195	
	13	Girifalco, L.A., et al., "Carbon nanotubes, buckyballs, ropes, and a universal graphitic potential," <i>Am. Physical Soc., Physical Review B</i> , 2000, 62(19), 13 104 - 13 110	
	14	Haggenmueller, R., et al., "Aligned single-wall carbon nanotubes in composites by melt processing methods," <i>Chem. Phys. Lett.</i> , 2000, 330, 219-225	
	15	Haggenmueller, R., et al., "[W26.008] Single-walled carbon nanotube/nylon66 composites," <i>Session W26 - Focus Session: Carbon Nanotube Composites, 2003, W26.008</i> , 1 page (abstract)	
	16	Haggenmueller, R., et al., "[D9.001] Single-walled carbon nanotube/semicrystalline polymer composite fibers," <i>Session D9 - Focus Session: Nanostructures in Polymers I, 2002, D9.001</i> , 1 page (abstract)	
	17	Haggenmueller, R., et al., "[V18.004] Processing and characterization of polymers containing single-wall carbon nanotubes," <i>Session V18 - Nanoparticles, Oral Session, 2001, V18.004</i> , 1 page (abstract)	
	18	Haggenmueller, R., "[M10.002] Thermoplastic/nanotube composite fibers," <i>Session M10 - Nanotubes and Related Materials: Applications, Oral Session, 2000, M10.002</i> , 1 page (abstract)	
	19	Haggenmueller, R., et al., "Single-walled carbon nanotube/polymer composite fibers," <i>Univ. of Penn., 2001, MRS</i> , 1 page (abstract)	
✓	20	Haggenmueller, R., et al., "Mechanical and structural investigation of highly aligned single-walled carbon nanotubes in polymer composites," <i>Univ. of Penn., 2002, MRS</i> , 1 page (abstract)	
EXAMINER		DATE CONSIDERED 2-17-06	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. UPNA-0017/P3156	Application No. 10/805,705
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		Confirmation No. 8807	14.127
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
14.127	21	Haggenmueller, R., et al., "Production and characterization of polymer nanocomposites with highly aligned single-walled carbon nanotubes," <i>J. of Nanoscience & Nanotechnology</i> , 2003, 3(1), 1-6	
	22	Halford, B., "Acid route to nanotube fibers," <i>Chemical & Engineering News</i> , 2003, 81(50), page 9; http://pubs.acs.org/cen/topstory , 2 pages	
	23	Halpin, J.C., et al., "The Halpin-Tsai equations: a review," <i>Polymer Eng. Sci.</i> , 1976, 16(5), 344-352	
	24	Hwang, J., et al., "Polarized spectroscopy of aligned single-wall carbon nanotubes," <i>Phys. Rev. B</i> , 2000, 62(20), R13 310 – R13-313	
	25	Islam, M.F., et al., "High weight fraction surfactant solubilization of single-wall carbon nanotubes in water," <i>Nano Letts.</i> , 2003, 3(2), 269-273	
	26	Jin, L., et al., "Alignment of carbon nanotubes in a polymer matrix by mechanical stretching," <i>Appl. Phys. Lett.</i> , 1998, 73(9), 1197-1199	
	27	Kashiwagi, T., "Thermal degradation and flammability properties of poly(propylene)/carbon nanotube composites," <i>Macromol. Rapid Commun.</i> , 2002, 23, 761-765	
	28	Kelsey, W.D., "reu Program Final Report," August 2000, http://www.mse.arizona.edu/~reu-ret/pastreureports_1.htm , downloaded February 24, 2004, 1-9	
✓	29	Kim, P., et al., "Thermal transport measurements of individual multiwalled nanotubes," <i>Phys. Rev. Lett.</i> , 2001, 87(21), 215502-1 – 215502-4	
	30	Kim, B., et al., "Electrical properties of single-wall carbon nanotube and epoxy composites," <i>J. of Applied Physics</i> , 2003, 94(10), 6724-6728	
EXAMINER		DATE CONSIDERED 2-9-06	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. UPNA-0017/P3156	Application No. 10/805,705
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		Confirmation No. 8807	H.H.
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
H.H.	31	Li, F., et al., "Tensile strength of single-walled carbon nanotubes directly measured from their macroscopic ropes," <i>Appl. Phys. Lett.</i> , 2000, 77(20), 3161-3163	
	32	Liang, Z., et al., "Investigation of molecular interactions between (10, 10) single-walled nanotube and epon 862 resin/DETDA curing agent molecules," <i>Materials Science and Engineering</i> , 2004, A365, 228-234	
*	33	Mallick, P.K., "Fiber-reinforced composites," <i>Marcel Dekker, Inc.</i> , 1993	
	34	Nikolaev, P., et al., "Gas-phase catalytic growth of single-walled carbon nanotubes from carbon monoxide," <i>Chem. Phys. Lett.</i> , 1999, 313, 91-97	
	35	Park, C., et al., "Dispersion of single wall carbon nanotubes by in situ polymerization under sonication," <i>Chem. Phys. Letts.</i> , 2002, 364, 303-308	
	36	Pötschke, P., et al., "Rheological behavior of multiwalled carbon nanotube/polycarbonate composites," <i>Polymer</i> , 2002, 43, 3247-3255	
	37	Qian, D., et al., "Load transfer and deformation mechanisms in carbon nanotube-polystyrene composites," <i>Appl. Phys. Lett.</i> , 2000, 76(20), 2868-2870	
	38	Ramasubramaniam R., et al., "Homogeneous carbon nanotube/polymer composites for electrical applications," <i>Appl. Phys. Letts.</i> , 2003, 83(14), 2928-2930	
	39	Rutkofsky, M., et al., "Using a carbon nanotube additive to make electrically conductive commercial polymer composites," <i>Zyvex Appln. Note</i> , www.zyvex.com , publication date unknown, 3 pages	
✓	40	Sandler, J., et al., "Development of a dispersion process for carbon nanotubes in an epoxy matrix and the resulting electrical properties," <i>Polymer</i> , 1999, 40, 5967-5971	
EXAMINER		DATE CONSIDERED 2-1-06	

* A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is believed to be too voluminous and easily obtainable by the Examiner.

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	Filing Date March 22, 2004	Group 1753 1713
	Confirmation No. 8807	1417
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
Phil ✓	41	Sandler, J.K.W., et al., "Ultra-low electrical percolation threshold in carbon-nanotube-epoxy composites," <i>Polymer</i> , 2003, 44, 5893-5899
	42	Salvetat, J.P., et al., "Elastic and shear moduli of single-walled carbon nanotube ropes," <i>Phys. Rev. Lett.</i> , 1999, 82(5), 944-947
	43	Schueler, R., et al., "Agglomeration and electrical percolation behavior of carbon black dispersed in epoxy resin," <i>J. Appl. Polym. Sci.</i> , 1997, 63, 1741-1746
	44	Shaffer, M.S., et al., "Fabrication and characterization of carbon nanotube/poly(vinyl alcohol) composites," <i>Adv. Mater.</i> , 1999, 11(11), 937-941
	45	Stéphan, C., et al., "Electrical properties of singlewalled carbon nanotubes-PMMA composites," <i>Am. Inst. Of Physics</i> , 2000, 363-366
	46	Thostenson, E.T., et al., "Aligned multi-walled carbon nanotube-reinforced composites: processing and mechanical characterization," <i>J. of Physics D: Applied Physics</i> , 2002, 35, L77-L80
	47	Valentini, L., "Morphological characterization of single-walled carbon nanotubes-PP composites," <i>Composites Science and Technology</i> , 2003, 63, 1149-1153
	48	Wong, E.W., et al., "Nanobeam mechanics: elasticity, strength, and toughness of nanorods and nanotubes," <i>Science</i> , 1997, 277, 1971-1975
	49	Wood, J.R., et al., "Orientation of carbon nanotubes in polymers and its detection by raman spectroscopy," <i>Composites: Part A</i> , 2001, 32, 391-399
	50	Yu, M.F., et al., "Tensile loading of ropes of single wall carbon nanotubes and their mechanical properties," <i>Phys. Rev. Lett.</i> , 2000, 84(24), 5552-5555
EXAMINER	DATE CONSIDERED 2-2-06	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. UPNA-0017/P3156	Application No. 10/805,705
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		Filing Date March 22, 2004	Group T753 1713
		Confirmation No. 8807	H173
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
H173	51	http://www.aps.org/meet/MAR02/baps/tocD.html , "Program Overview," Monday Afternoon Session, March 18, 2002, downloaded March 15, 2004, 1-30	
H173	52	http://www.aps.org/meet/MAR03/baps/abs/S8260.html , "Focus Session: Carbon Nanotube Composites," Thursday Morning, March 6, 2003, downloaded February 26, 2004, 1-3	
EXAMINER		DATE CONSIDERED	
JSC		28-06	

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. UPNA- 0017/P3156		Application No. 10/805,705	
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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
h12	53	5,908,585	06/01/99	Shibuta	252	506	
↓	54	6,544,463 B1	04/08/03	Luzzi	264	346	
	55	6,576,341 B1	06/10/03	Davey, et al.	428	376	
	56	6,617,377 B2	09/09/03	Chacko	524	99	
	57	6,645,455 B2	11/11/03	Margrave, et al.	423	447.1	
	58	6,689,835 B2	02/10/04	Amarasekera, et al.	524	495	
	59	2002/0046872 A1	04/25/02	Smalley, et al.	174	137 A	
	60	2002/0048632 A1	04/25/02	Smalley, et al.	427	230	
	61	2002/0058743 A1	05/16/02	Tobita, et al.	524	495	
	62	2002/0068170 A1	06/06/02	Smalley, et al.	428	403	
	63	2002/0085968 A1	07/04/02	Smalley, et al.	422	198	
	64	2002/0090331 A1	07/11/02	Smalley, et al.	422	198	
	65	2002/0090501 A1	07/11/02	Tobita	428	297.4	
	66	2002/0113335 A1	08/22/02	Lobovsky, et al.	264	184	
	✓	67	2002/0150524 A1	10/17/02	Smalley, et al.	422	198
EXAMINER				DATE CONSIDERED 2-9-06			

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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
H12	68	2002/0161101 A1	10/31/02	Carroll, et al.	524	495	
	69	2002/0185770 A1	12/12/02	McKague	264	108	
	70	2002/0197923 A1	12/26/02	Tobita, et al.	442	74	
	71	2003/0026754 A1	02/06/03	Clarke, et al.	423	447.2	
	72	2003/0077515 A1	04/24/03	Chen, et al.	429	231.8	
	73	2003/0122111 A1	07/03/03	Glatkowski	252	500	
	74	2003/0151030 A1	08/14/03	Gurin	252	502	
	75	2003/0158323 A1	08/21/03	Connell, et al.	524	495	
	76	2003/0164427 A1	09/04/03	Glatkowski, et al.	244	158 R	
	77	2003/0170167 A1	09/11/03	Nikolaev, et al.	423	447.1	
	78	2003/0180526 A1	09/25/03	Winey, et al.	428	323	
	79	2003/0216502 A1	11/20/03	McElrath, et al.	524	507	
	80	2003/0236588 A1	12/25/03	Jang, et al.	700	119	
	81	2003/122111 A1	07/03/03	Glatkowski	252	500	
	82	2003/164427 A1	09/04/03	Glatkowski, et al.	244	158 R	
✓	83	2004/0029706 A1	02/12/04	Barrera, et al.	501	99	
✓	84	2004/0024428 A1	02/05/04	Barrett, et al.	607	58	
EXAMINER H12				DATE CONSIDERED 2-9-06			

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FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO
WJZ	85	WO 01/92381 A1	12/06/01	PCT		
	86	WO 01/30694 A1 equivalent to EPO 1 226 093 A2	05/03/01	PCT		
	87	WO 02/080195 A1	10/10/02	PCT		
	88	WO 03/060941 A2	07/24/03	PCT		
	89	WO 03/078317 A1	09/25/03	PCT		
	90	WO 03/080513 A2	10/02/03	PCT		
	91	WO 2004/024428 A1	03/25/04	PCT		
	92	1 054 036 A1	11/22/00	EPO		
	93	1 260 619 A1	11/27/02	EPO		
	94	1 336 672	08/20/03	EPO		
EXAMINER WJZ				DATE CONSIDERED 2-9-06		